

**ABSTRACT**

In a method and an apparatus for heating glass panels in a tempering furnace equipped with rollers, glass panels are carried on a conveyor defined by rollers into a tempering furnace for the duration of a heating cycle, followed by  
5 carrying the glass panels into a tempering station. The glass panels are heated in the tempering furnace by bottom- and top-heating radiation elements as well as by bottom- and top-heating convection elements through which convection air is supplied to the tempering furnace. The glass panels' bottom side is  
10 heated by the bottom-heating convection elements, which are arranged lengthwise along the furnace and define convection heating zones side by side in a lateral direction of the tempering furnace. Thus, convection heating effects of the convection heating zones can be altered relative to each other for profiling the heat transfer coefficient in a lateral direction of the furnace.